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SUBSTITUTE SPECIFICATION

TITLE OF THE INVENTION

APPARATUS FOR MEASURING SPECIFIC ABSORPTION RATE OF RADIO COMMUNICATION APPARATUS

BACKGROUND OF THE INVENTION

1. FIELD OF THE INVENTION

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The present invention relates to an apparatus for measuring a specific absorption rate (hereinafter, referred to as an "SAR"), and in particular, to an apparatus for measuring an SAR of a radio communication apparatus such as a mobile phone, a portable radio communication apparatus, or the like.

2. DESCRIPTION OF THE RELATED ART

Recently, portable radio communication apparatuses such as a mobile phone have spread greatly. Accompanying this, a problem regarding the influence of electromagnetic waves radiated from a portable radio communication apparatus onto a human body has been caused. As a general index of the influence, an SAR is provided. The SAR is an electric power absorbed by a unit mass by exposing a living body such as a human body or the like to an electromagnetic field, and is expressed by the following Equation (1):

 $SAR=(\sigma E^2)/\rho \qquad (1),$

where E [V/m] is an electric field intensity, $\sigma[S/m]$ is an electrical conductivity of an organic tissue, and ρ [kg/m³] is a density of the vital tissue.

In an SAR evaluation method or a so-called electric field detecting